

Form Approved \_\_\_\_\_

OMB Control No. \_\_\_\_-\_\_\_\_

Approval Expires \_\_/\_\_/\_\_

**ELECTRIC UTILITY STEAM GENERATING UNIT  
MERCURY EMISSIONS INFORMATION COLLECTION EFFORT**

**BURDEN STATEMENT**

Preliminary estimates of the public burden associated with this information collection effort indicate a total of 45,402 hours and \$20,197,526. This is the estimated burden for 1,099 facilities to provide coal analyses and 138 units to provide speciated mercury emission data.

Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information that is sent to ten or more persons unless it displays a currently valid OMB control number.

**GENERAL INSTRUCTIONS**

Please provide the information requested in the following forms. If you are unable to respond to an item as it is stated, please provide any information you believe may be related. Use additional copies of the request forms for your response.

If you believe the disclosure of the information requested would compromise a trade secret, clearly identify such information as discussed in Enclosure 1. Any information subsequently determined to constitute a trade secret will be protected under 18 U.S.C. 1905. If no claim of confidentiality accompanies the information when it is received by EPA, it may be

made available to the public by EPA without further notice (40 CFR 2.203, September 1, 1976). Because section 114(c) of the Act exempts emission data from claims of confidentiality, the emission data you provide may be made available to the public. A definition of what the EPA considers emissions data is provided in 40 CFR 2.301(a)(2)(i).

The following section is to be completed by all facilities:

- ! Part I - General Facility Information: once for each facility. A copy of Part I should be completed and returned to the address noted below within 30 days of receipt.

The following section is to be completed by all facilities meeting the section 112(a)(8) definition of an electric utility steam generating unit:

- ! Part II - Coal Analyses: for each coal shipment received at each facility at which one or more coal-fired electric utility steam generating units are located. A copy of each Part II compiled for a calendar quarter should be completed and returned to the address noted below within 45 days of the end of the previous calendar quarter.

The following section is to be completed by all facilities selected for speciated stack testing:

- ! Part III - Speciated Mercury Emissions Data: one emissions test (consisting of three runs using paired sampling trains at each sampling location). A copy of the emissions test report should be completed and returned to the address noted below within 60 days of completion of the test.

Detailed instructions for each part follow.

Questions regarding this information request should be directed to Mr. Bill Maxwell at (919) 541-5430 or Mr. Bill Grimley at (919) 541-1065.

Return this information request and any additional information to:

Emissions Standards Division (MD-13)  
U.S. Environmental Protection Agency  
Office of Air Quality Planning and Standards  
Research Triangle Park, North Carolina 27711

Attention: Bruce Jordan, Director

PART I: GENERAL FACILITY INFORMATION

1. Name of legal owner of facility: \_\_\_\_\_

2. Name of legal operator of facility, if different from legal owner: \_\_\_\_\_

3. Address of \_\_\_\_ legal owner or \_\_\_\_ operator:

4. Name of facility: \_\_\_\_\_

5. Complete street address of facility (physical location): \_\_\_\_\_

6. Provide mailing address if different: \_\_\_\_\_

7. Name and title of contact(s) able to answer technical questions about the completed survey: \_\_\_\_\_

8. Contact(s) telephone number(s): \_\_\_\_\_

9. What fuels are fired in any steam generating unit at this facility  
\_\_\_\_ coal    \_\_\_\_ oil    \_\_\_\_ natural gas    \_\_\_\_ other (specify \_\_\_\_\_)

If **only** something other than coal is fired, complete Part I and return to the address noted above; no further action is necessary.

10. Identification (or designation), nameplate capacity (megawatts electric output; MWe), and MWe sold to any utility power distribution system for all coal-fired steam generating units (boilers) (as defined by section 112(a)(8) of the Act) located at this facility.

Boiler ID	MWe capacity	MWe sold	Boiler ID	MWe capacity	MWe sold

11. For each boiler noted above, provide the following information:

Boiler ID	Type <sup>a</sup>	NO <sub>x</sub> control <sup>b</sup>	SO <sub>2</sub> control <sup>c</sup>	PM control <sup>d</sup>

<sup>a</sup> Examples: tangential-fired; cyclone; wall-fired; fluidized bed combustion (FBC); coal gasification

<sup>b</sup> Examples: low-NO<sub>x</sub> burners; selective catalytic reduction (SCR); selective non-catalytic reduction (SNCR)

<sup>c</sup> Examples: wet flue gas desulfurization (FGD; any type); dry scrubbing (any type); compliance (low sulfur) coal; FBC (any type); coal gasification

<sup>d</sup> Examples: fabric filter; electrostatic precipitator (ESP); cyclone

## PART II: COAL ANALYSIS

Reports of analyses of coal samples that represent “as-fired” coal for each boiler at the facility are to be provided for all coal shipments received as noted below. Based on available information, it is envisioned that these analyses will be performed on samples already being taken for coal delivery contract verification ( i.e., “contract verification samples,” “governing samples,” or those coal samples on which payment to the supplier is based). For example, if the coal supplier takes contract verification samples during loading of the coal to be shipped, analyses of those samples would be accepted. If the facility owner/operator takes contract verification samples as the coal is received at the steam generating unit, then analyses of those samples would be accepted. Either may be used providing no further coal-cleaning is performed prior to firing.

(1) Shipment by rail car, barge, or ship. Owners/operators of units receiving coal by rail car (i.e., unit train, super unit train, or individual car), barge (i.e., barge tow or individual barge), or ship are required to provide certain information about each shipment, and the results of particular analyses of a composited coal sample that represents each particular coal shipment that is taken and maintained to determine compliance with the respective coal contract.

(2) Shipment by truck. Owners/operators of units receiving coal by truck are required to provide certain information about each shipment received and the results of particular analyses of a composited coal sample that represents each particular shipment that is taken and maintained for normal coal delivery contract verification purposes. It is expected that these analyses would be performed on samples composited from individual truck samples that are taken to determine compliance with individual supplier contracts.

(3) Shipment by conveyor. Owners/operators of units receiving coal by conveyor belt (i.e., “mine-mouth” units) are required to provide certain information about coal received in increments not to exceed 10,000 tons. For each increment, they are also required to report the results of particular analyses of corresponding coal samples taken for contract verification purposes.

1. Name of facility from Part I, question 4: \_\_\_\_\_
2. Period covered by this report: \_\_\_\_\_

3. For each individual coal shipment received, provide the following information:

[illegible]

\* if known.

4. For each contract verification sample identified in question 3 above, provide the following information (reported as dry basis):

Sample ID #	Volatile matter, %	Total Sulfur, %	Heating Value, Btu/lb	Ash, %	Carbon, %	Hydrogen, %	Nitrogen, %	Oxygen, %

(4. Continued)

Sample ID #	Total amount of coal represented by sample, tons	Mercury, ppm	Chlorine, ppm

5. Analyses provided in Part II, question 4 supplied by  
\_\_\_ Coal supplier (name and address) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_ Other ( name and address) \_\_\_\_\_  
\_\_\_\_\_
6. Name and address of laboratory performing analyses:  
\_\_\_\_\_
7. Specific method(s) used to obtain samples:\_\_\_\_\_
8. Specific method(s) used to prepare samples for analysis for mercury:  
\_\_\_\_\_
9. Specific method(s) used to analyze samples for mercury:  
\_\_\_\_\_
10. Evidence of accuracy and precision of analysis for mercury (e.g., results of concurrent analyses of NIST SRMs):\_\_\_\_\_
11. In addition to the analyses required in question 4 above, please provide copies of any analyses for (a) additional trace metals and (b) the mineralogy of the ash that are readily available for the coal(s) listed in question 3 above.

### PART III: SPECIATED MERCURY EMISSIONS TESTING DATA

Testing is to be performed on a one-time basis at the inlet and outlet of the SO<sub>2</sub> control device or, for statistically selected sources from the category of “no SO<sub>2</sub> control,” at the inlet and outlet of the particulate control device.

Prior to the test, a site-specific test plan is to be submitted by the owner/operator to the EPA for review and approval. In addition, any revisions suggested by the owner/operator to the generic Quality Assurance Project Plan (QAPP) provided by the EPA with the section 114 letter should be submitted with the site-specific test plan. The EPA will provide the results of its review of the site-specific test plan, and any QAPP modifications suggested, to the facility within 30 days of receipt. The test plan is to be prepared according to the document entitled “Preparation and Review of Site Specific Test Plans,” which can be electronically obtained from the Internet at “<http://134.67.104.12/html/emtic/guidlnd.htm>”.

Use the test method entitled “Standard Test Method for Elemental, Oxidized, Particle-Bound, and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (Ontario Hydro Method),” which can be electronically obtained from the Internet at “<http://134.67.104.12/html/emtic/othermth.htm>”.

Each test is to consist of three separate runs using paired sampling trains at each sampling location. Concurrent coal sampling and analysis of the coal fired during each of the three separate runs is to be done by taking three coal samples at intervals throughout each testing period and the results are to be reported along with the emission results. Following the testing, submit the test report prepared according to the document entitled “Preparation and Review of Emission Test Reports,” which can be electronically obtained from the Internet at “<http://134.67.104.12/html/emtic/guidlnd.htm>”.